

FIG.1A

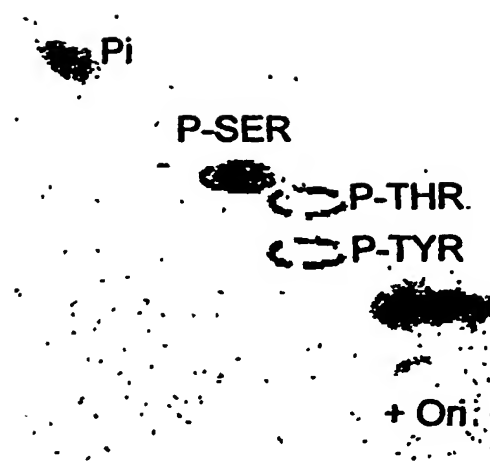


FIG.1B

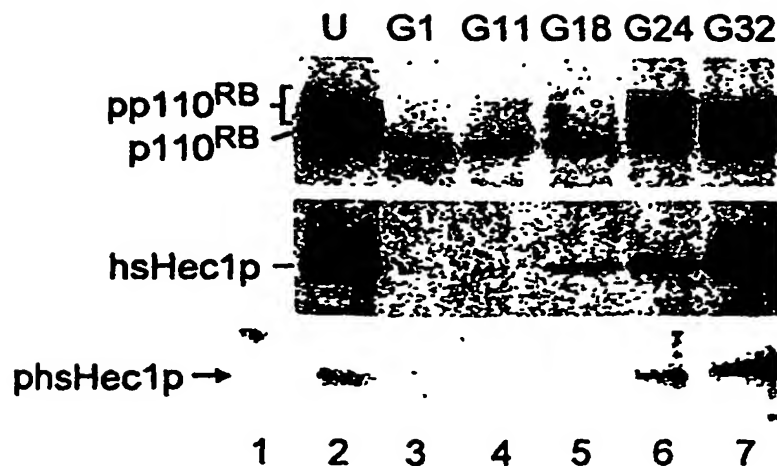


FIG.1C

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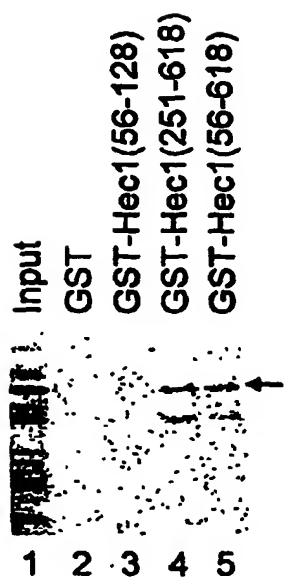


FIG.2A

	colony color	$\beta$ -Gal. activity
hsHec1 (a.a. 1-642)		
15Pst (a.a. 251-618)	blue	$2744 \pm 220$
15PR (a.a. 251-431)	blue	$902 \pm 226$
15Scs (a.a. 361-547)	blue	$637 \pm 398$
15HpBg (a.a. 547-618)	white	$17 \pm 3$

FIG.2B

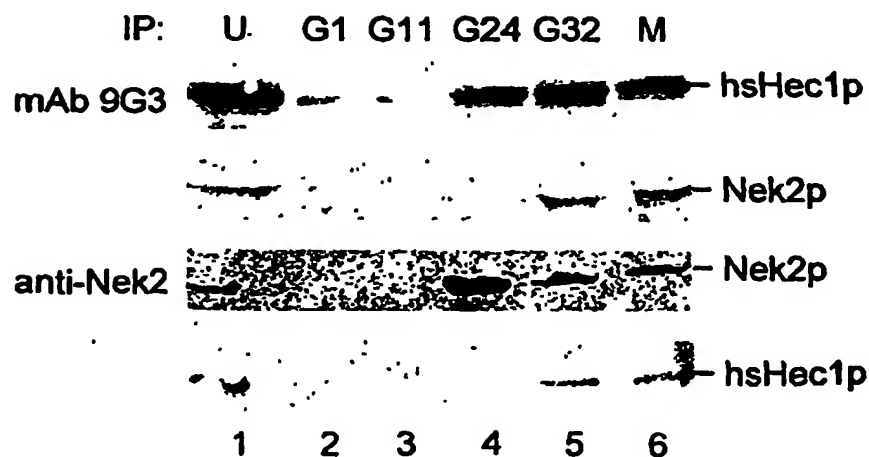


FIG.2C

hsHEC1 158 LGYPFAL  $\overset{\vee}{\text{S}}$  KSSMYTV  
peptide sequence: LGYPFALS<sup>PO4</sup>KSSMYTV  
(A439)

FIG.3A

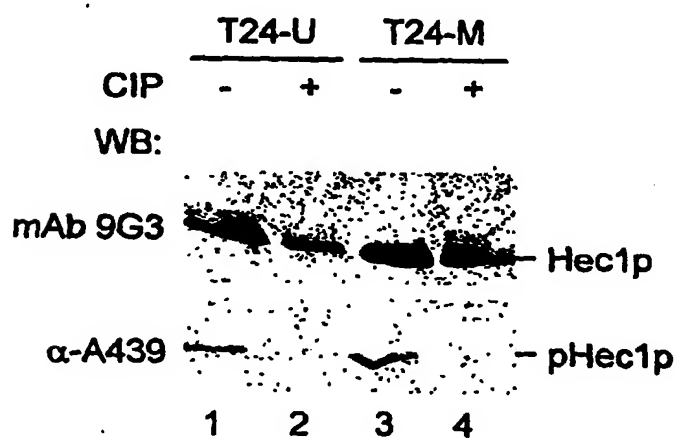


FIG.3B

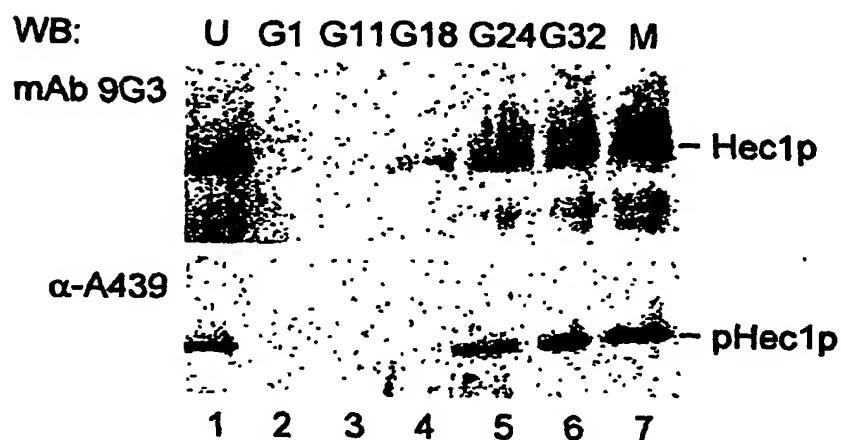


FIG.3C

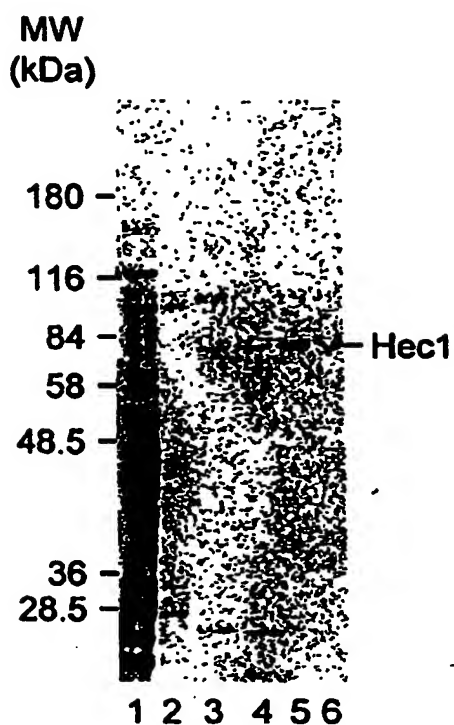


FIG.4A

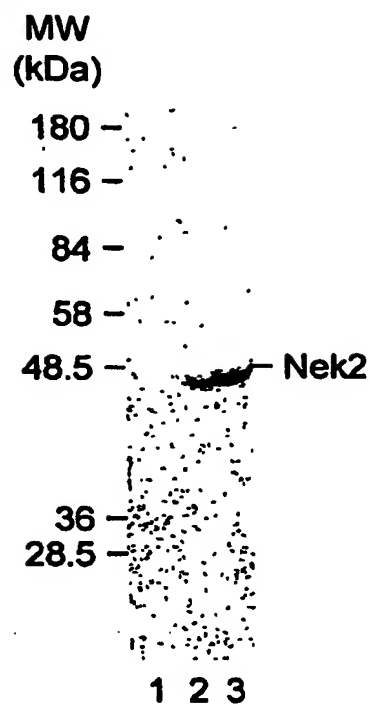


FIG.4B

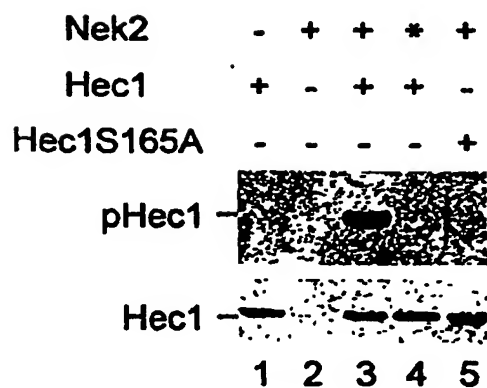


FIG.4C

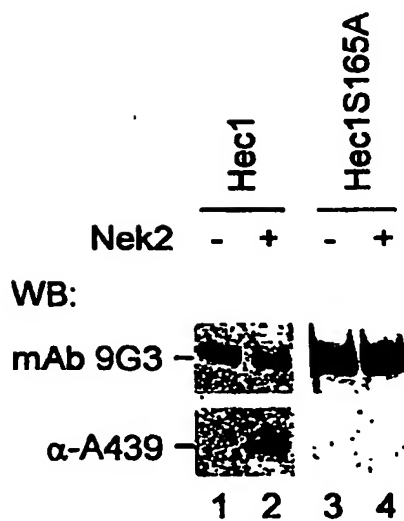


FIG.4D

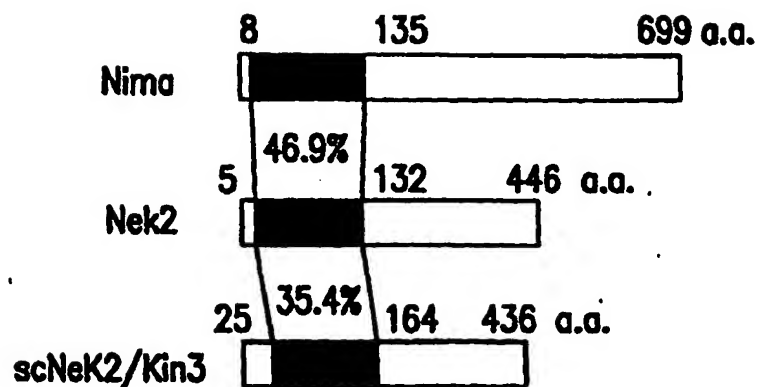


FIG.5A

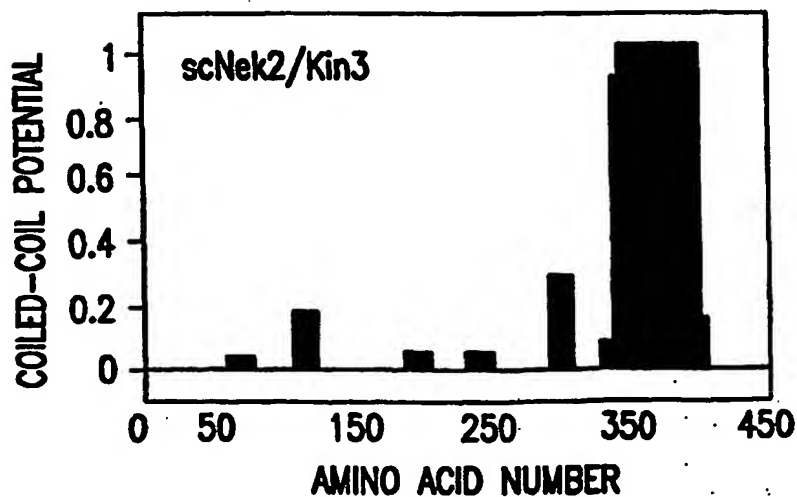
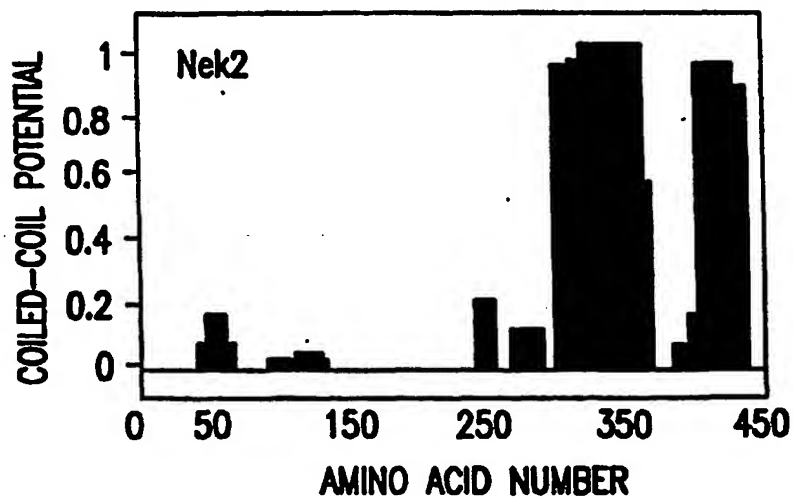
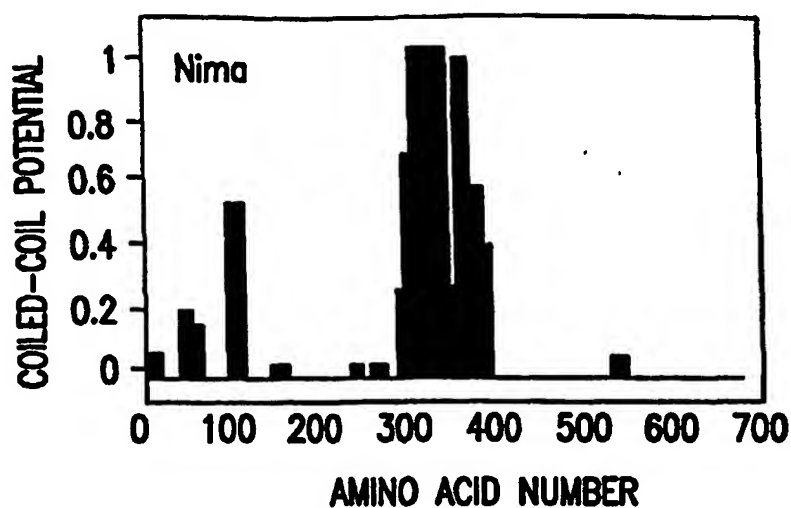
↓

Nima	35	FILCRKEINYIK
Nek2	32	KILWKELDYGS
scNek2/Kin3	49	KILCRKDIKYGH

FIG.5D

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FIG.5B



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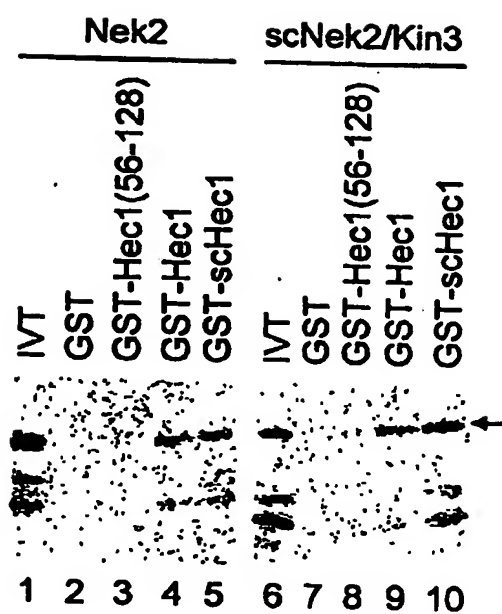


FIG.5C

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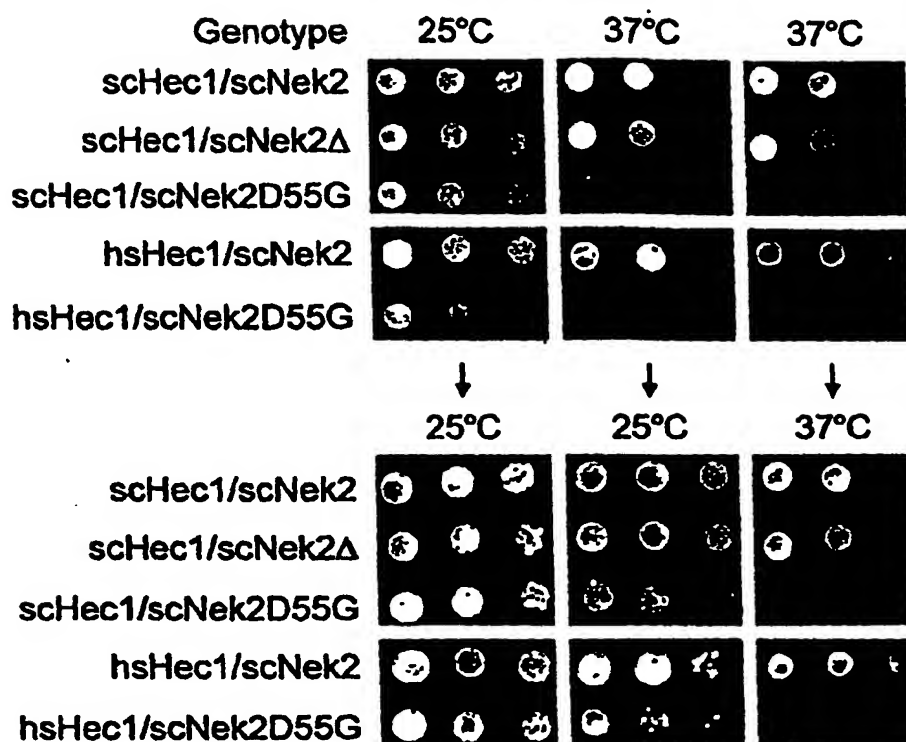


FIG.6A

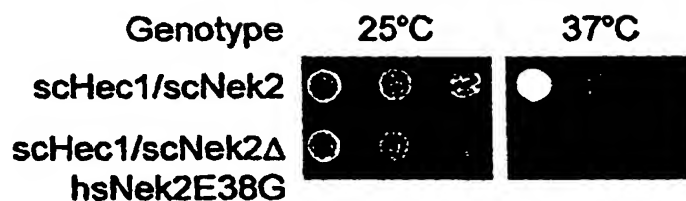


FIG.6B

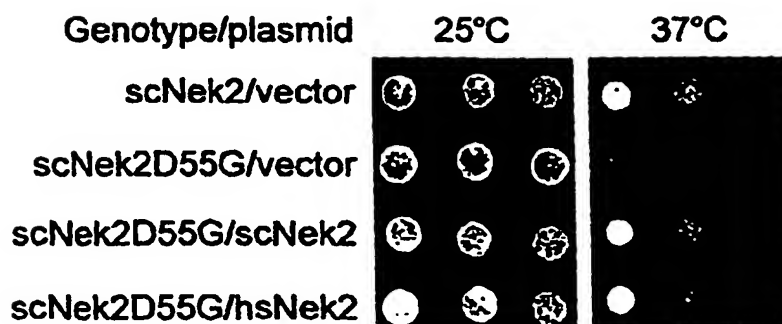


FIG 6C



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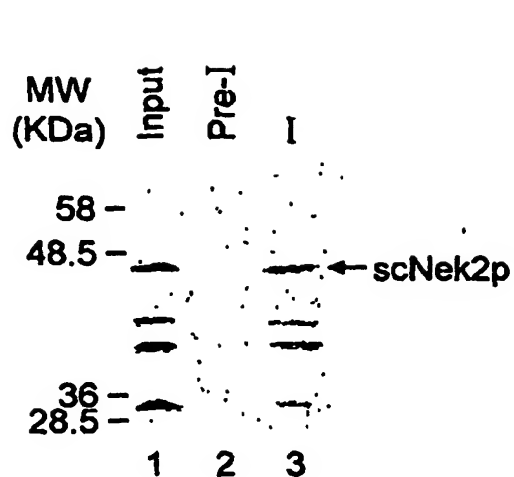


FIG.7A

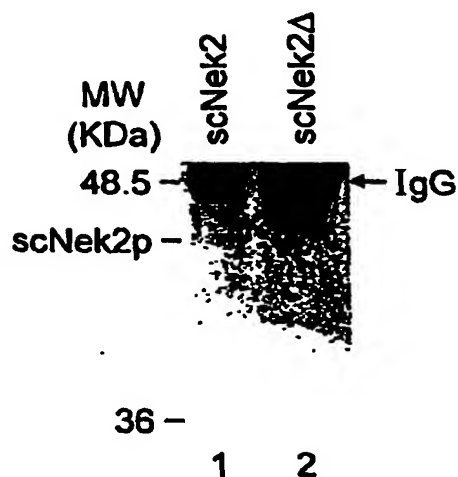


FIG.7B

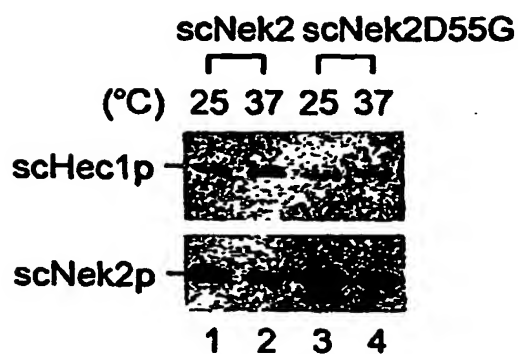


FIG.7C

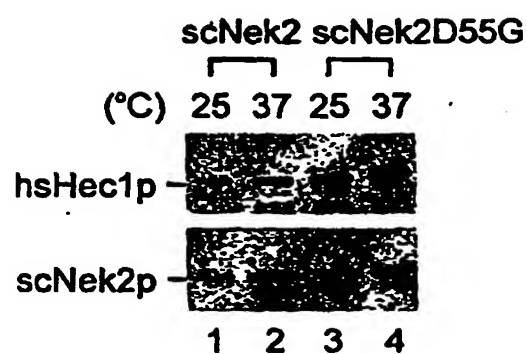


FIG.7D

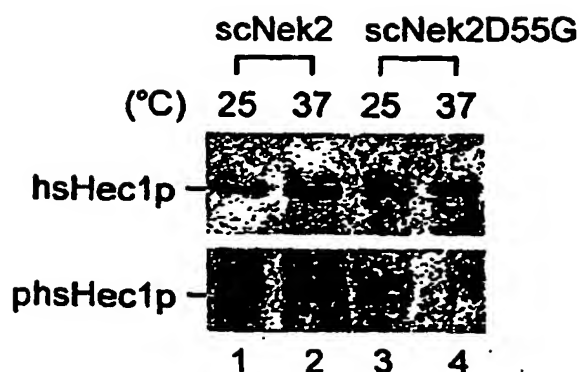


FIG 7

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scHec1	<sup>192</sup>	KNLRYPFLESIN
scHec1S201A		KNLRYPFLEAIN
scHec1S201E		KNLRYPFLEEIN
hsHec1	<sup>156</sup>	KDLGYPEALSKS
hsHec1S165A		KDLGYPEALAKS
hsHec1S165E		KDLGYPEALEKS

FIG.8A

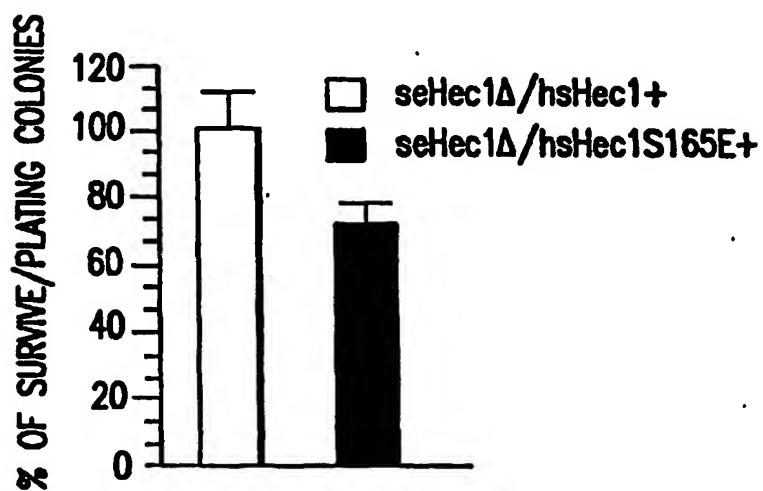


FIG.8C

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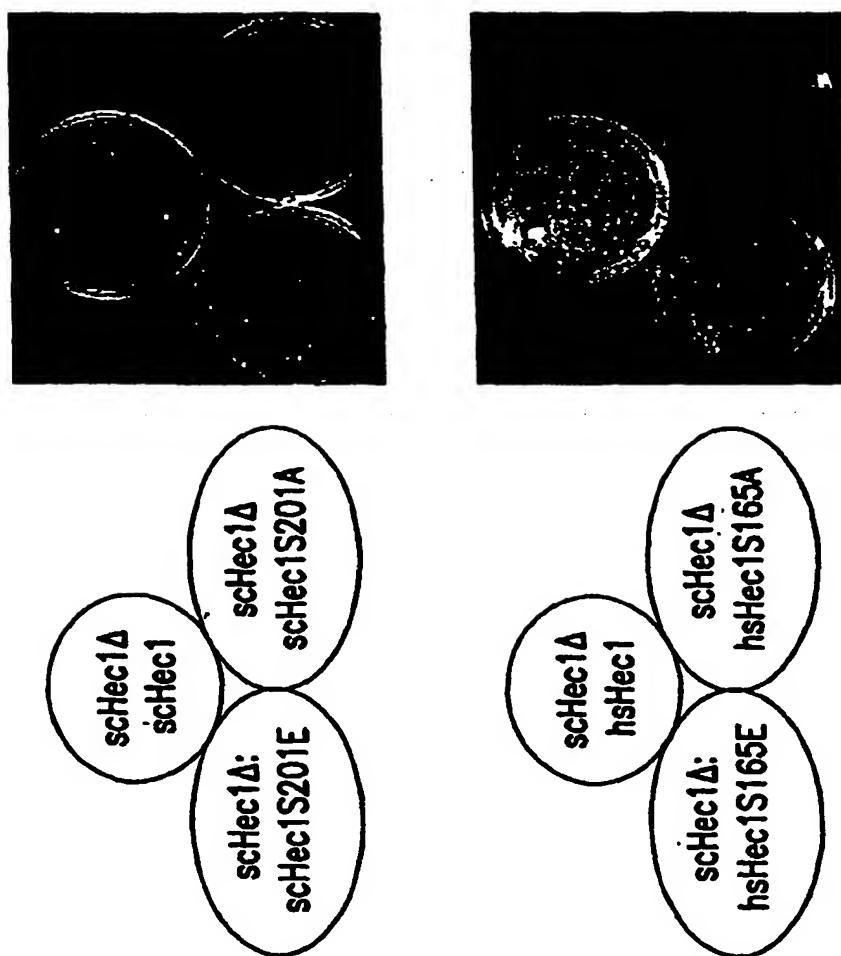


FIG. 8B



FIG.9A

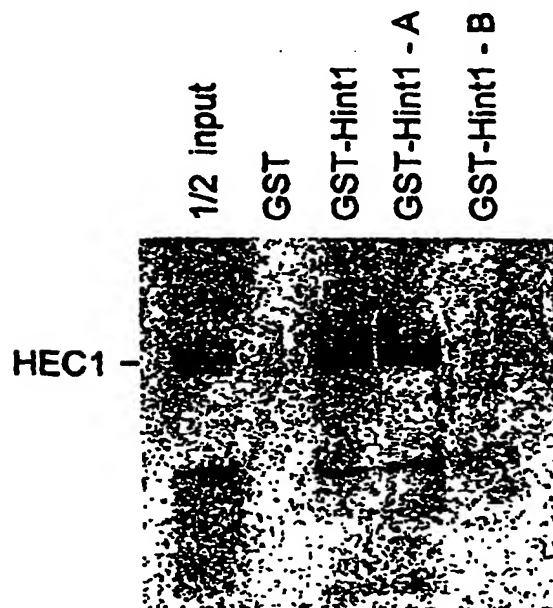


FIG.9B

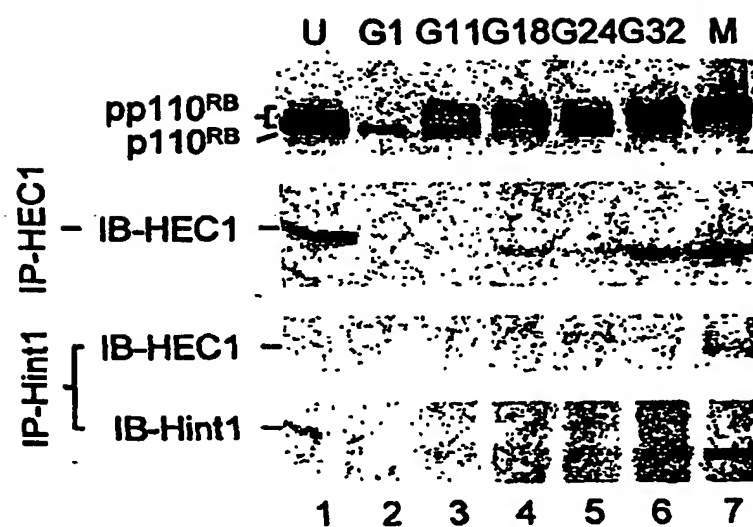


FIG.10

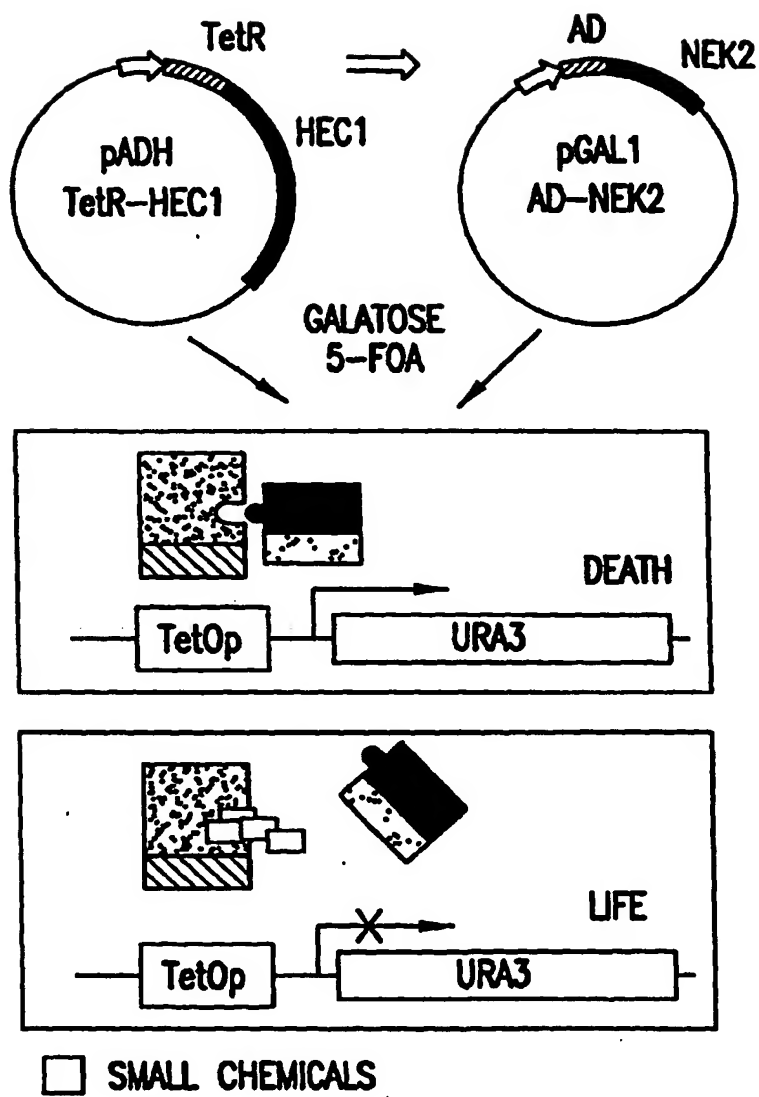


FIG.11A

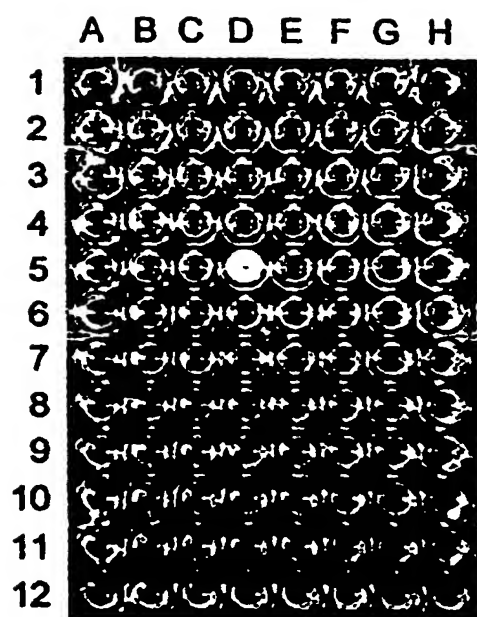


FIG. 11B

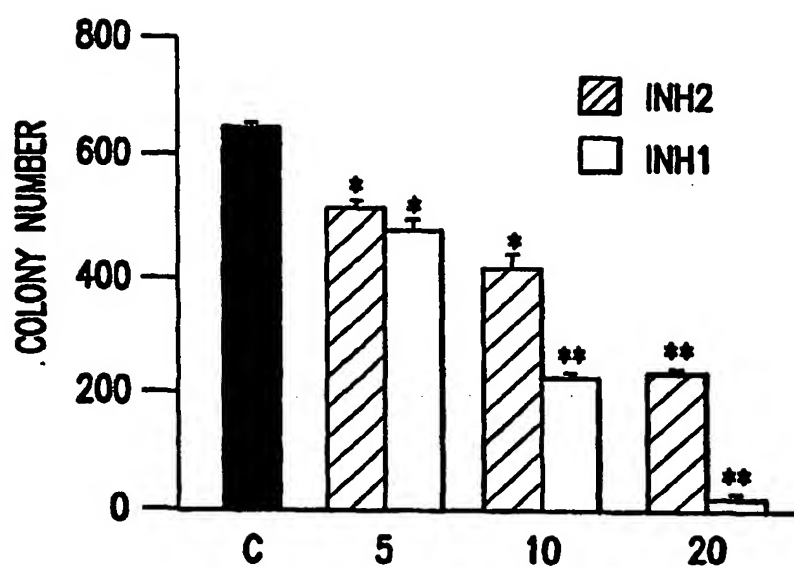


FIG. 12



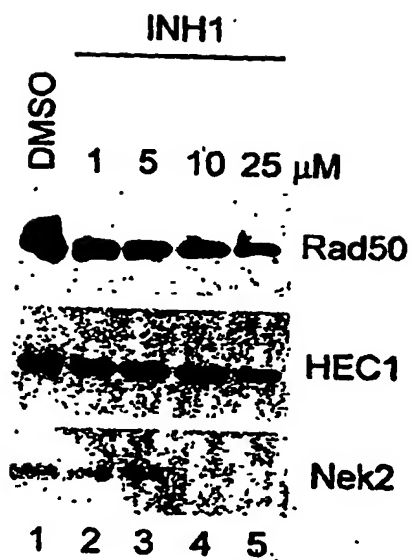


FIG.13A

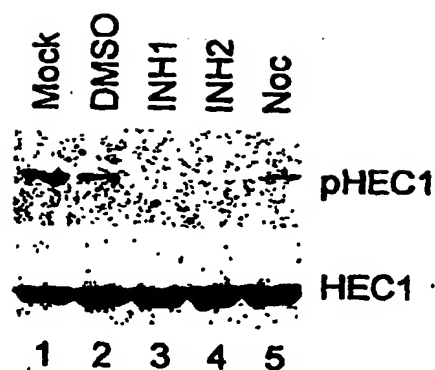


FIG.13B

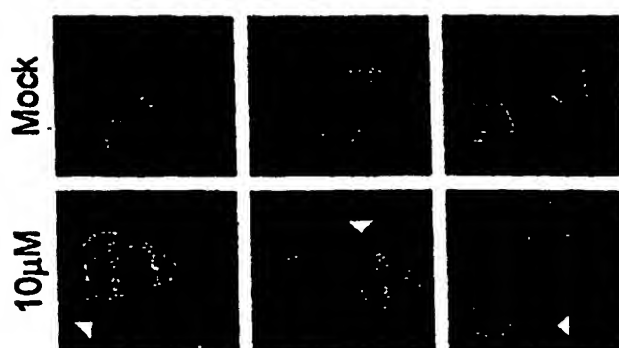


FIG.14A

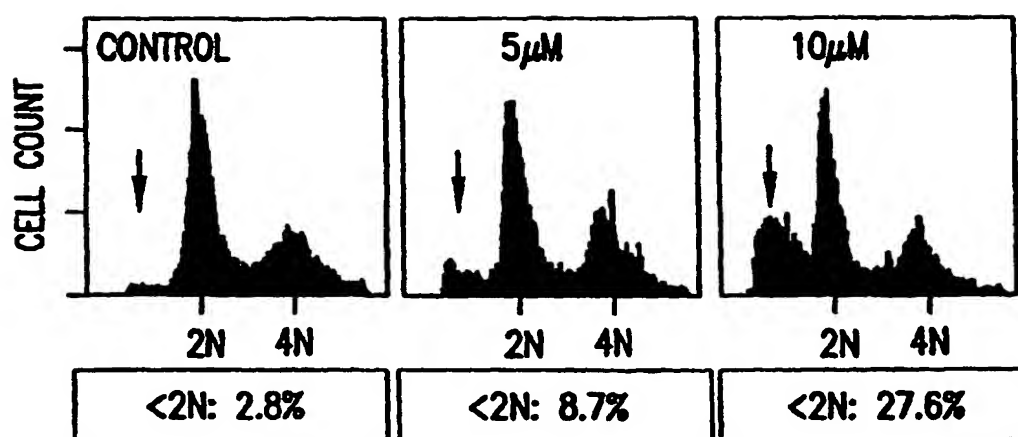


FIG.14B

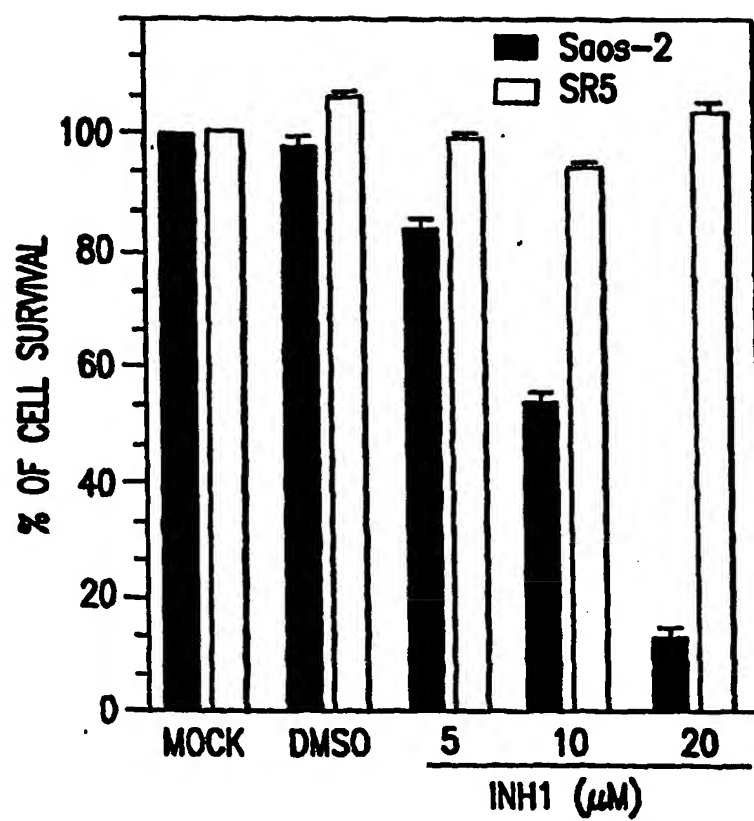
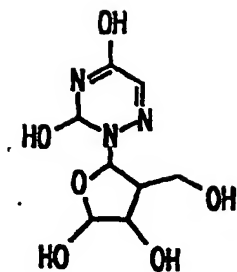
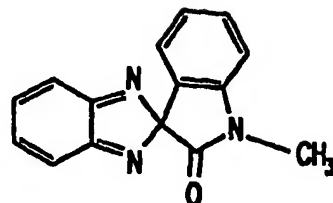


FIG.15

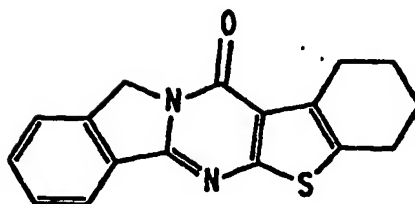
IBT 4282  
MW: 247.21



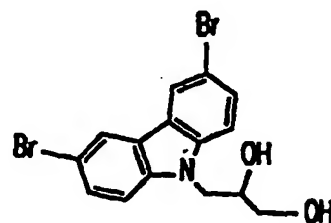
IBT 6432  
MW: 249.27



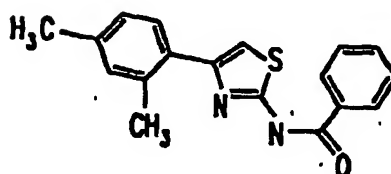
IBT 11830  
MW: 294.38



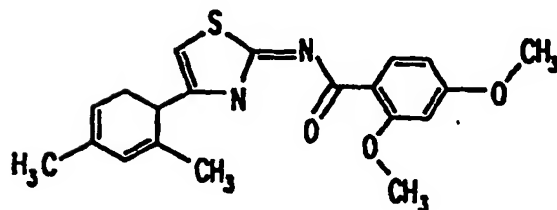
IBT 12008  
MW: 399.08



IBT 13131  
MW: 308.41



IBT 14664  
MW: 382.49



IBT 15154  
MW: 493.45

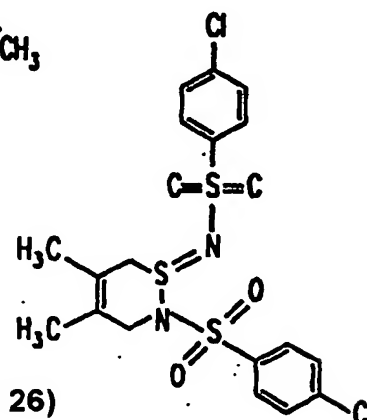


FIG. 16

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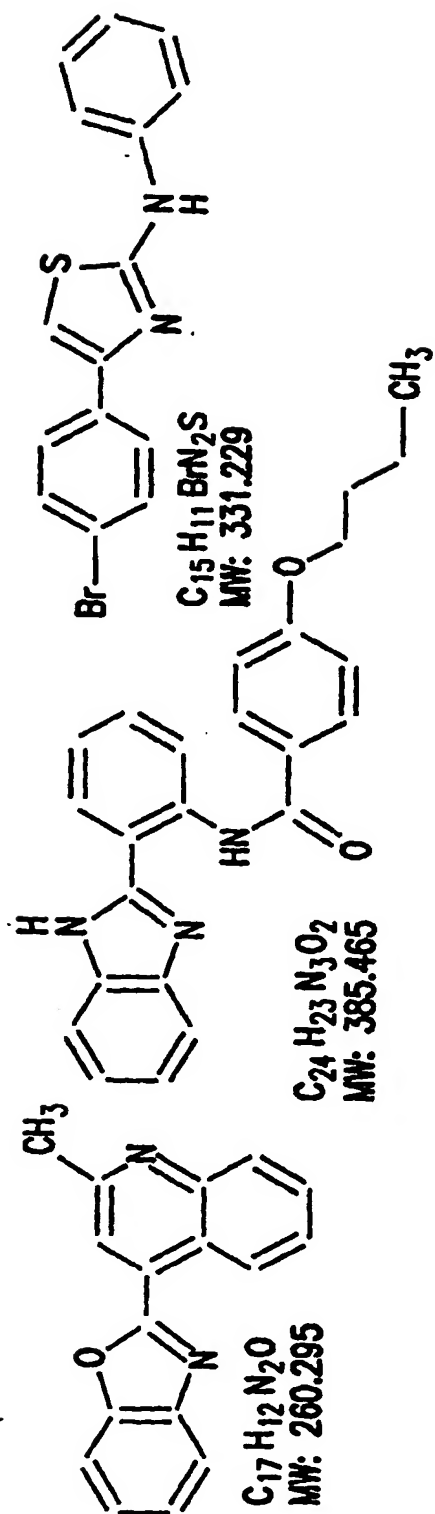


FIG.17

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